



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 141014

TO: Rei-Tsang Shiao
Location: 5a10 / 5c18
Wednesday, December 22, 2004
Art Unit: 1626
Phone: 272-0707
Serial Number: 10 / 685020

From: Jan Delaval
Location: Biotech-Chem Library
Rem 1A51
Phone: 272-2504

jan.delaval@uspto.gov

Search Notes

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Robert (Ken) Strick Examiner #: 79521 Date: 12/22/04
Art Unit: 626 Phone Number: 2-0707 Serial Number: 10685026
Mail Box and Bldg/Room Location: CA 105-78 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

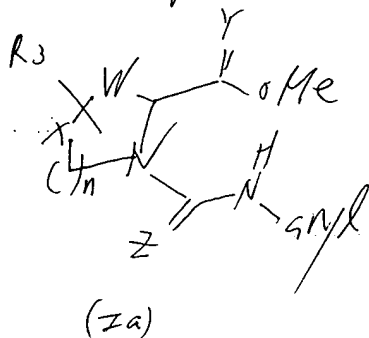
Title of invention: Hydro model

Inventors (please provide full names): H. C. M. 921-10

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

2 search cpd 2 (see clarinet)



* W is C , CO , $C=NO$

* X is C, O, N

X Y is $\partial S/H$

* z is 0, 5, N

* n is 1, or 2

IV methods of use of cpdz

~~STAFF USE ONLY~~

Searcher: _____

Searcher Phone #: 22504

Searcher Location: _____

Date Searcher Picked Up: 12/22

Date Completed: 12/22

Searcher Prep & Review Time: _____

Chemical Prep Time: 15

Online Time: + 28

Type of Search

NA Sequence (#)_____

AA Sequence (#) _____

Structure (#) 1

Bibliographic _____

Litigation _____

Fultext

Parent Family _____

Other _____

Vendors and cost where applicable

STN ✓

Dialog _____

Questel/Orbit _____

Dr. Link _____

Lexis/Nexis _____

Sequence Systems

WWW/Internet _____

Other (specify) _____

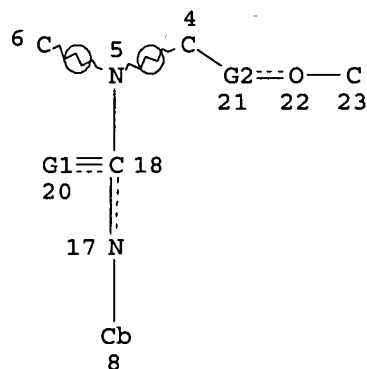
FILE 'REGISTRY' ENTERED AT 14:51:17 ON 22 DEC 2004
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STRUCTURE FILE UPDATES:    20 DEC 2004  HIGHEST RN 800365-77-9
DICTIONARY FILE UPDATES:  20 DEC 2004  HIGHEST RN 800365-77-9
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Please note that search-term pricing does apply when conducting SmartSELECT searches.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

27
G3
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C
@25



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VAR G1=O/S/N
VAR G2=C/25
VAR G3=O/S
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS PCY UNS AT 8
DEFAULT ECLEVEL IS LIMITED

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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 12

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STEREO ATTRIBUTES: NONE
L25      800109 SEA FILE=REGISTRY ABB=ON  PLU=ON  C6-C6/ES AND NR>=2
L27      9 SEA FILE=REGISTRY SUB=L25 SSS FUL L23
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100.0% PROCESSED 27 ITERATIONS
SEARCH TIME: 00.00.01

9 ANSWERS

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L1 1 S (US20040092559 OR US6670386 OR US20030055094)/PN OR (US2001-3

FILE 'REGISTRY' ENTERED AT 14:30:55 ON 22 DEC 2004

FILE 'HCAPLUS' ENTERED AT 14:30:55 ON 22 DEC 2004

SET SMARTSELECT ON
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SET SMARTSELECT OFF

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L3 97 S L2
L4 63 S L3 AND C6-C6/ES
L5 6 S L4 AND NC4/ES
L6 1 S L5 AND C18H17N3O4
E C18H17N3O4/MF
L7 1 S E3 AND C6-C6/ES AND NC4/ES AND 3/NR
L8 1 S L6,L7
L9 52 S L4 AND NR>=3
L10 51 S L9 NOT L8
L11 35 S L10 AND NCNC2-NC4/ES
L12 16 S L10 NOT L11
L13 4 S L12 AND NCNC2-NC5/ES
L14 12 S L12 NOT L13
L15 7 S L14 NOT L5
L16 7 S L15 NOT L8
L17 STR
L18 0 S L17
L19 STR L17
L20 0 S L19
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L24 1 S L23
L25 800109 S C6-C6/ES AND NR>=2
L26 1 S L23 SAM SUB=L25
L27 9 S L23 FUL SUB=L25
SAV L27 SHIAO685/A
L28 8 S L27 NOT L8,L16
L29 3 S L28 AND (NC2/ES OR C20H20N2O3 OR C29H27N3O5)
L30 5 S L28 NOT L29
SAV L30 SHIAO685A/A

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L31 0 S L8
L32 0 S L30

FILE 'HCAPLUS' ENTERED AT 14:50:41 ON 22 DEC 2004

L33 2 S L8
L34 2 S L30
L35 3 S L33,L34

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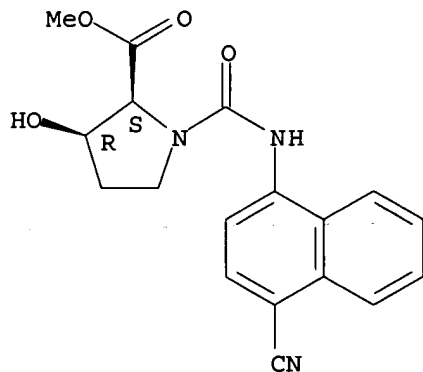
L36 2 S L8
L37 5 S L30
L38 5 S L36,L37

FILE 'REGISTRY' ENTERED AT 14:51:17 ON 22 DEC 2004

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L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 496841-10-2 REGISTRY
CN L-Proline, 1-[[[(4-cyano-1-naphthalenyl)amino]carbonyl]-3-hydroxy-, methyl ester, (3R)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN (2S,3R)-1-[[[(4-Cyanonaphthalen-1-yl)carbamoyl]-3-hydroxypyrrolidine-2-carboxylic acid methyl ester
FS STEREOSEARCH
MF C18 H17 N3 O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:28605

REFERENCE 2: 138:153537

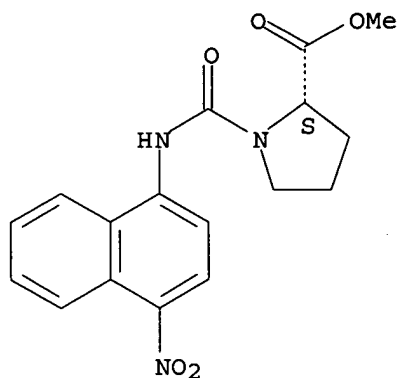
=> d ide can l30 tot

L30 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
RN 496840-99-4 REGISTRY
CN L-Proline, 1-[[[(4-nitro-1-naphthalenyl)amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN (2S)-1-[[[(4-Nitro-1-naphthalenyl)amino]carbonyl]-2-pyrrolidinecarboxylic acid methyl ester
FS STEREOSEARCH
MF C17 H17 N3 O5
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:153537

L30 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN 393790-64-2 REGISTRY

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-1-naphthalenyl-2-[[2,4,5-trifluorophenyl]methoxy]methyl]-, (2S,4R)-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

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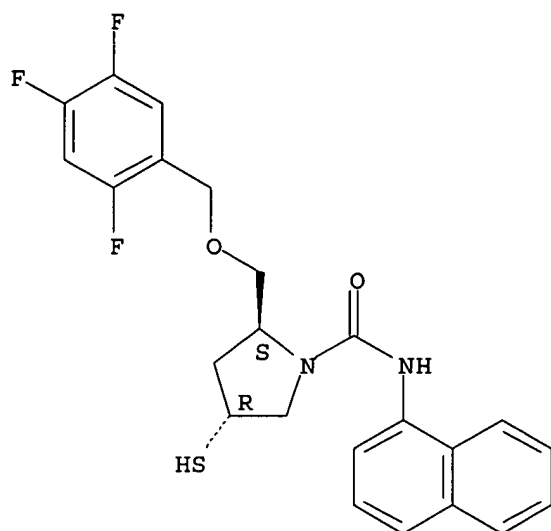
SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.



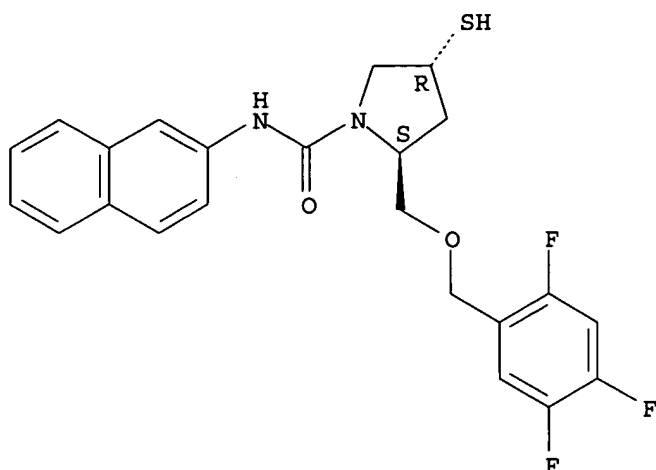
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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:151068

L30 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
RN 393790-63-1 REGISTRY
CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-2-naphthalenyl-2-[[2,4,5-trifluorophenyl)methoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H21 F3 N2 O2 S
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:151068

L30 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN 393790-61-9 REGISTRY

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-1-naphthalenyl-2-[(phenylmethoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C23 H24 N2 O2 S

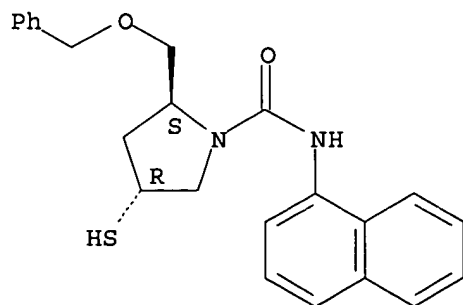
SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.



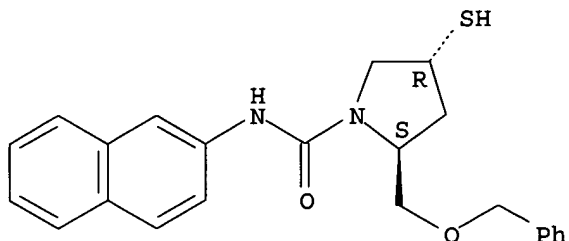
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:151068

L30 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
RN 393790-60-8 REGISTRY
CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-2-naphthalenyl-2-
[(phenylmethoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H24 N2 O2 S
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:151068

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FILE 'HCAPLUS' ENTERED AT 14:51:31 ON 22 DEC 2004

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FILE COVERS 1907 - 22 Dec 2004 VOL 141 ISS 26

FILE LAST UPDATED: 21 Dec 2004 (20041221/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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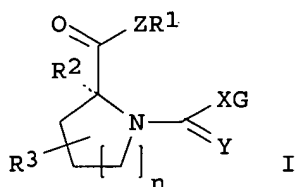
L35 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:452960 HCAPLUS
DN 141:28605

ED Entered STN: 04 Jun 2004
 TI Open chain prolyl urea-related modulators of androgen receptor function
 therapeutic use for nuclear hormone receptor-associated conditions
 IN Hamann, Lawrence G.; Augeri, David J.; Manfredi, Mark C.
 PA Bristol-Myers Squibb Company, USA
 SO PCT Int. Appl., 57 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K
 CC 63-5 (Pharmaceuticals)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004045518	A2	20040603	WO 2003-US36331	20031113
	WO 2004045518	A3	20041007		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI US	2002-426694P	P	20021115		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004045518	ICM	A61K
OS	MARPAT 141:28605	
GI		



AB The invention provides for a pharmaceutical composition capable of modulating the androgen receptor comprising a compound of formula (I), wherein R1, R2 and R3 are groups consisting of hydrogen (H), alkyl, or substituted alkyl etc; G is a mono- or polycyclic ring system; X is a linking group selected from the group consisting of NR4 and CHR4; Y is selected from the group consisting of oxygen (O), NR4, NOR4 and sulfur (S); Z is oxygen (-O-) or NR4. Further provided are methods of using such compds. for the treatment of nuclear hormone receptor-associated conditions, such as age related diseases, for example sarcopenia, and also provided are pharmaceutical compns. containing such compds.

ST prolyl urea related modulator androgen receptor therapy; nuclear hormone receptor assocd condition therapy

IT Aging, animal
 (-related functional decline; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Muscle, disease
 (atrophy; open chain prolyl urea-related modulators of androgen

receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Heart, disease
(cardiac syndrome X; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Glycosides
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cardiac; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Drug delivery systems
(carriers; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Glucocorticoids
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(catabolic side effect of; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Fatigue, biological
(chronic fatigue syndrome; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Mental disorder
(cognitive, reduced function; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Diabetes mellitus
(complication; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Mental disorder
(depression; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Metabolism, animal
(disorder, chronic catabolic state; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Behavior
(disorder, nervousness, irritability; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Cognition
(disorder, reduced function; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Appetite
(disorder; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Osteoporosis
(drug for; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Bone, disease
(fracture, repair; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT Disease, animal
(frailty; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

- conditions)
- IT Reproductive tract, disease
(hypogonadism; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Disease, animal
(lipodistrophy; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Disease, animal
(long-term critical illness; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Contraceptives
(male; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Disease, animal
(metabolic syndrome X; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Thyroid hormones
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mimetic; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Progesterone receptors
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(modulator; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Muscle, disease
(muscle loss following elective surgery; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Anabolic agents
Anti-inflammatory agents
Antidepressants
Antidiabetic agents
Antihypertensives
Antiobesity agents
Anxiolytics
Cachexia
Obesity
Selective estrogen receptor modulators
Stress, biological
(open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Androgen receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Estrogens
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Growth factors, animal
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated

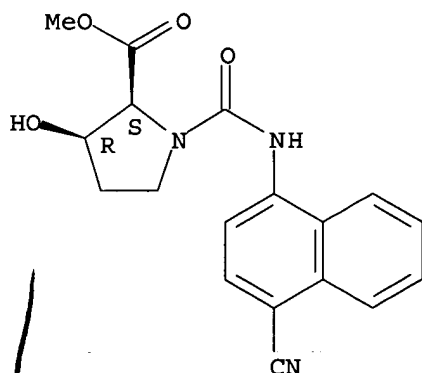
- conditions)
- IT Bone, disease
(reduced bone d. or growth; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Muscle, disease
(reduced strength and function; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Growth disorders, animal
(retarded; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Muscle
(sarcopenia; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Chemotherapy
(side effect; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Fatigue, biological
(syndrome; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT Disease, animal
(wasting; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT 121-44-8, Triethylamine, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(TEA; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT 57-88-5, Cholesterol, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(lowering agent; open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT 7732-18-5, Water, uses
RL: NUU (Other use, unclassified); USES (Uses)
(open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT 75-03-6, Iodoethane 75-44-5, Phosgene 79-22-1, Methyl chloroformate 109-72-8, Butyl lithium, reactions 144-55-8, Carbonic acid monosodium salt, reactions 320-51-4, 4-Chloro-3-(trifluoromethyl)aniline 544-92-3, Copper cyanide 567-35-1, cis-3-Hydroxyproline 1892-57-5, EDAC 2592-95-2, HOBT 3282-30-2, Pivaloyl chloride 4111-54-0, 2-Propanamine, N-(1-methylethyl)-, lithium salt 6674-22-2, DBU 7087-68-5, Diisopropylethylamine 36062-93-8 68634-82-2 496841-08-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)
- IT 13691-92-4P 14311-32-1P 488713-30-0P 488713-31-1P 496841-05-5P 496841-10-2P 697228-47-0P 697228-48-1P 697228-49-2P 697228-50-5P 697228-51-6P 697228-52-7P 697228-53-8P 697228-54-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(open chain prolyl urea-related modulators of androgen receptor function therapeutic use for nuclear hormone receptor-associated conditions)

IT 57-83-0, Progesterone, biological studies 58-22-0, Testosterone
 9002-64-6, Parathyroid hormone 9002-72-6, Growth hormone 13598-36-2,
 Phosphonic acid 304853-26-7, Growth hormone secretagogue
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (open chain prolyl urea-related modulators of androgen receptor
 function therapeutic use for nuclear hormone receptor-associated
 conditions)

IT 496841-10-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (open chain prolyl urea-related modulators of androgen receptor
 function therapeutic use for nuclear hormone receptor-associated
 conditions)

RN 496841-10-2 HCAPLUS
 CN L-Proline, 1-[[[4-cyano-1-naphthalenyl)amino]carbonyl]-3-hydroxy-, methyl
 ester, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



✓ L35 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:117794 HCAPLUS
 DN 138:153537
 ED Entered STN: 14 Feb 2003
 TI Preparation of imidazole-containing heterobicyclic modulators of androgen
 receptor function
 IN Sun, Chongqing; Robl, Jeffrey A.; Salvati, Mark E.; Wang, Tammy; Hamann,
 Lawrence; Augeri, David
 PA Bristol-Myers Squibb Company, USA
 SO PCT Int. Appl., 99 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07D207-09
 ICS C07D211-04; C07D235-02; A61K031-40; A61K031-4184; A61K031-4188
 CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1, 2

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003011824	A1	20030213	WO 2002-US24185	20020731
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

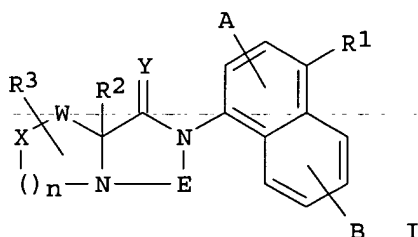
US 2003055094	A1	20030320	US 2002-209461	20020731
US 6670386	B2	20031230		
EP 1414795	A1	20040506	EP 2002-756813	20020731
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2004092559	A1	20040513	US 2003-685020	20031014
PRAI US 2001-309059P	P	20010731		
US 2002-209461	A3	20020731		
WO 2002-US24185	W	20020731		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003011824	ICM	C07D207-09
	ICS	C07D211-04; C07D235-02; A61K031-40; A61K031-4184; A61K031-4188
US 2003055094	ECLA	C07D471/04+235C+221C; C07D487/04+235C+209C; C07D487/04+241C+235C; C07D513/04+277C+235C
US 2004092559	ECLA	C07D471/04+235C+221C; C07D487/04+235C+209C; C07D487/04+241C+235C; C07D513/04+277C+235C

OS MARPAT 138:153537

GI



AB The invention provides imidazole-containing heterobicyclic compds. (shown as I, including all prodrug esters, pharmaceutically acceptable salts and stereoisomers thereof; variables defined below; e.g. tetrahydro-2-(4-nitro-1-naphthalenyl)imidazo[1,5-a]pyridine-1,3(2H,5H)-dione), methods of using such compds. for the treatment of nuclear hormone receptor-associated conditions, such as age related diseases, for example sarcopenia, and pharmaceutical compns. containing such compds. Pharmacol. assay procedures are described but results for I are not reported. For I: R1 = H, cyano, nitro, halo, heterocyclo, OR4, CO2R5, CONHR5, COR5, S(O)mR5, SO2NR5R5', NHCOR5 and NHSO2R5; R2 = H, alkyl or substituted alkyl, (un)substituted alkenyl, (un)substituted arylalkyl, CO2R5, CONR5R5' and CH2OR5; R3 = H, (un)substituted alkyl, (un)substituted alkenyl, (un)substituted alkynyl, (un)substituted cycloalkyl, (un)substituted arylalkyl, (un)substituted heterocycloalkyl, (un)substituted aryl, (un)substituted heteroaryl, halo, cyano, NHCOR5, NHCO2R5, NHCONR5R5', NHSO2R5 and OR4. R4 = H, (un)substituted alkyl, CHF2, CF3 and COR5; R5 and R5' = H, (un)substituted alkyl, (un)substituted alkenyl, (un)substituted alkynyl, (un)substituted cycloalkyl, (un)substituted heterocycloalkyl, (un)substituted arylalkyl, (un)substituted aryl, (un)substituted heteroaryl and cyano; W = (CR6R6')m, CHOH(CR6R6')m, CO(CR6R6')m and C:NOR4(CR6R6')m. R6 and R6' = H, (un)substituted alkyl, (un)substituted alkenyl, (un)substituted alkynyl, (un)substituted cycloalkyl, (un)substituted arylalkyl, (un)substituted heterocycloalkyl, (un)substituted aryl, (un)substituted heteroaryl, halo, cyano, NHCOR5, NHCO2R5, NHCONR5R5', NHSO2R5 and OR4; X = methylene, O,

S(O)m, NCOR5, NCO2R5, NCONHR5R5', NSO2NR5R5'; Y = O, S and H2; E = C:Z, CHR5, SO2, P(O)R5 and P(O)OR5; Z = O, S, NH and NR5; A and B = H, halo, cyano, nitro, (un)substituted alkyl and OR4; m = 0-2; and n = 1-2;. Although the methods of preparation are not claimed, 42 example prepsns. are included.

- ST imidazole heterobicyclic compd prepn androgen receptor modulator
- IT Fatigue, biological
 - (acute fatigue syndrome following elective surgery; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)
- IT Osteoporosis
 - (anti-osteoporosis agents; combined with imidazole-containing heterobicyclic modulators of androgen receptor function for therapy or prophylaxis)
- IT Muscle, disease
 - (atrophy; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)
- IT Glycosides
 - RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (cardiac; combined with imidazole-containing heterobicyclic modulators of androgen receptor function for therapy or prophylaxis)
- IT Glucocorticoids
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (catabolic side effects; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)
- IT Fatigue, biological
 - (chronic fatigue syndrome; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)
- IT Mental disorder
 - (cognitive; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)
- IT Anabolic agents
 - Anti-inflammatory agents
 - Anticholesteremic agents
 - Antidepressants
 - Antidiabetic agents
 - Antihypertensives
 - Antiobesity agents
 - Anxiolytics
 - (combined with imidazole-containing heterobicyclic modulators of androgen receptor function for therapy or prophylaxis)
- IT Estrogens
 - Growth factors, animal
 - RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (combined with imidazole-containing heterobicyclic modulators of androgen receptor function for therapy or prophylaxis)
- IT Mental disorder
 - (depression; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)
- IT Metabolism, animal
 - (disorder, catabolic, chronic catabolic state; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)
- IT Appetite
 - Cognition
 - (disorder; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)
- IT Drug delivery systems
 - (for imidazole-containing heterobicyclic modulators of androgen receptor function)
- IT Bone, disease

(fracture, repair; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)

IT Reproductive tract, disease
(hypogonadism; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)

IT Mental disorder
(irritability; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)

IT Contraceptives
(male, contraception; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)

IT Disease, animal
(metabolic syndrome X; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)

IT Thyroid gland
(mimetics; combined with imidazole-containing heterobicyclic modulators of androgen receptor function for therapy or prophylaxis)

IT Progesterone receptors
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(modulators; combined with imidazole-containing heterobicyclic modulators of androgen receptor function for therapy or prophylaxis)

IT Androgen receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(modulators; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function)

IT Hormone receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nuclear; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function)

IT Human
(preparation of imidazole-containing heterobicyclic modulators of androgen receptor function)

IT Anxiety
Cachexia
Cognition enhancers
Diabetes mellitus
Lipodystrophy
Obesity
Stress, animal
(preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)

IT Bone, disease
(reduced d. or growth; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)

IT Growth disorders, animal
(retarded; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)

IT Muscle, disease
(sarcopenia; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)

IT Estrogen receptors
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(selective modulators; combined with imidazole-containing heterobicyclic modulators of androgen receptor function for therapy or prophylaxis)

IT Chemotherapy
(side effects; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)

- IT Disease, animal
(wasting; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)
- IT Muscle, disease
(weakness; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function with therapeutic uses)
- IT 9002-72-6, Growth hormone
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(and secretagogues; combined with imidazole-containing heterobicyclic modulators of androgen receptor function for therapy or prophylaxis)
- IT 57-83-0, Progesterone, biological studies 58-22-0, Testosterone
9002-64-6, Parathyroid hormone 13598-36-2D, Phosphonic acid, bisphosphonates
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(combined with imidazole-containing heterobicyclic modulators of androgen receptor function for therapy or prophylaxis)
- IT 496841-03-3P 496841-12-4P 496841-25-9P, (7AS)-4-(1,3-Dioxo-5,7a-dihydro-1H-pyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile
496841-32-8P, (7R,7AS)-4-(7-hydroxy-7-methyl-1,3-dioxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(drug candidate, chromatog. resolution; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function)
- IT 496841-46-4P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate, chromatog. resolution; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function)
- IT 496841-06-6P, (7R,7AS)-4-[Tetrahydro-7-hydroxy-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl]-1-naphthalenecarbonitrile 496841-11-3P, (7S,7AR)-4-[Tetrahydro-7-hydroxy-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl]-1-naphthalenecarbonitrile 496841-27-1P, (7AR)-4-(1,3-Dioxo-5,7a-dihydro-1H-pyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile
RL: PAC (Pharmacological activity); PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function)
- IT 496841-13-5P, (7S,7AR)-Tetrahydro-7-hydroxy-2-(4-nitro-1-naphthalenyl)-1H-pyrrolo[1,2-c]imidazole-1,3(2H)-dione 496841-14-6P, (7R,7AS)-Tetrahydro-7-hydroxy-2-(4-nitro-1-naphthalenyl)-1H-pyrrolo[1,2-c]imidazole-1,3(2H)-dione 496841-34-0P, (7S,7AR)-4-(7-Hydroxy-7-methyl-1,3-dioxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile
496841-47-5P, (8R,8AS)-4-(8-Hydroxy-1,3-dioxohexahydroimidazo[1,5-a]pyridin-2-yl)naphthalene-1-carbonitrile 496841-48-6P, (8S,8AR)-4-(8-Hydroxy-1,3-dioxohexahydroimidazo[1,5-a]pyridin-2-yl)naphthalene-1-carbonitrile
RL: PAC (Pharmacological activity); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of imidazole-containing heterobicyclic modulators of androgen receptor function)
- IT 496841-49-7P, 2-(4-Cyanonaphthalen-1-yl)-1,3-dioxohexahydroimidazo[1,5-a]pyrazine-7-carboxylic acid tert-butyl ester 496841-50-0P, 4-(1,3-Dioxohexahydroimidazo[1,5-a]pyrazin-2-yl)naphthalene-1-carbonitrile hydrochloride

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of imidazole-containing heterobicyclic modulators

of androgen receptor function)

IT 496840-96-1P, Tetrahydro-2-(4-nitro-1-naphthalenyl)imidazo[1,5-a]pyridine-1,3(2H,5H)-dione 496840-97-2P, Tetrahydro-2-(4-nitro-1-naphthalenyl)-1H-pyrrolo[1,2-c]imidazole-1,3(2H)-dione 496841-00-0P 496841-01-1P, (6R)-Tetrahydro-6-hydroxy-2-(4-nitro-1-naphthalenyl)-1H-pyrrolo[1,2-c]imidazole-1,3(2H)-dione 496841-02-2P, (6R)-Tetrahydro-2-(4-nitro-1-naphthalenyl)-6-(phenylmethoxy)-1H-pyrrolo[1,2-c]imidazole-1,3(2H)-dione 496841-15-7P 496841-16-8P 496841-18-0P 496841-19-1P 496841-20-4P 496841-21-5P, 4-(5,7-Dioxodihydroimidazo[1,5-c]thiazol-6-yl)naphthalene-1-carbonitrile 496841-22-6P 496841-23-7P 496841-24-8P, 4-(1,3-Dioxo-5,6-dihydro-1H-pyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-28-2P, (7AR)-4-(6,7-Dihydroxy-1,3-dioxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-29-3P, (7AS)-4-(6,7-Dihydroxy-1,3-dioxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-30-6P, (7S,7AR)-4-(7-Hydroxy-7a-methyl-1,3-dioxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-31-7P, (7R,7AS)-4-(7-Hydroxy-7a-methyl-1,3-dioxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-35-1P, (7R,7AS)-4-(7-Hydroxy-1-oxo-3-thioxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-37-3P, (3R,7S,7AS)-4-(3-tert-Butyl-7-hydroxy-1-oxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-40-8P, (3R,7S,7AS)-4-(7-Hydroxy-1-oxo-3-phenyltetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-41-9P, (3S,7S,7AS)-4-(7-Hydroxy-1-oxo-3-phenyltetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-42-0P, (3R,6R,7AS)-4-(3-tert-Butyl-6-hydroxy-1-oxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-51-1P, 4-(7-Methanesulfonyl-1,3-dioxohexahydroimidazo[1,5-a]pyrazin-2-yl)naphthalene-1-carbonitrile 496841-52-2P, 2-(4-Cyanonaphthalen-1-yl)-1,3-dioxohexahydroimidazo[1,5-a]pyrazine-7-carboxylic acid methyl ester 496841-53-3P, (7R,7AR)-4-(7-Hydroxy-3-oxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-56-6P, (7S,7AS)-4-(7-Hydroxy-3-oxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile 496841-58-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of imidazole-containing heterobicyclic modulators

of androgen receptor function)

IT 100-52-7, Benzaldehyde, reactions 630-19-3, Pivalaldehyde 776-34-1, 1-Amino-4-nitronaphthalene 874-24-8, 3-Hydroxypicolinic acid 2298-07-9, 1-Amino-4-bromonaphthalene 4298-08-2, trans-3-Hydroxy-L-proline 15862-72-3 34592-47-7, L-Thioprolin 40126-30-5, cis-4-Hydroxy-L-proline methyl ester hydrochloride 40216-83-9, trans-4-Hydroxy-L-proline methyl ester hydrochloride 54631-81-1, 1-(tert-Butoxycarbonyl)-(R)-4-benzyloxy-L-proline 58728-64-6, 4-Amino-1-naphthalenecarbonitrile 66831-17-2, trans-4-Benzyloxy-L-proline methyl ester hydrochloride 74844-93-2, N-Boc-3,4-dehydro-L-proline methyl ester 438631-75-5, 4-tert-Butoxycarbonyl-2-piperazinecarboxylic acid tert-butyl ester

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of imidazole-containing heterobicyclic modulators of androgen receptor function)

IT 341-95-7P, 4-Nitro-1-naphthylidiazonium tetrafluoroborate 1591-96-4P, 4-Bromo-1-naphthalene isocyanate 2133-40-6P, L-Proline methyl ester hydrochloride 2577-48-2P, L-Proline methyl ester 35616-00-3P,

4-Nitro-1-naphthalenecarboxylic acid methyl ester 54528-16-4P,
4-Nitro-1-naphthalene isocyanate 60667-24-5P, Thiazolidine-4-carboxylic
acid methyl ester 130966-46-0P, (2S,3R)-N-tert-Butoxycarbonyl-3-hydroxy-
2-pyrrolidinecarboxylic acid methyl ester 156045-82-8P,
(2S,3S)-3-(tert-Butyldimethylsilyloxy)pyrrolidine-1,2-dicarboxylic acid
1-tert-butyl ester 157252-24-9P, 4-Amino-1-naphthalenecarboxylic acid
methyl ester 179686-58-9P, [tert-Butoxycarbonyl(3-oxobutyl)amino]acetic
acid ethyl ester 184046-78-4P, (2S,3S)-N-tert-Butoxycarbonyl-3-hydroxy-2-
pyrrolidinecarboxylic acid methyl ester 187039-57-2P,
(2S,3S)-3-Hydroxypyrrolidine-1,2-dicarboxylic acid 1-tert-butyl ester
194297-98-8P, cis-3-Hydroxypiperidine-2-carboxylic acid 194297-99-9P,
cis-3-Hydroxypiperidine-2-carboxylic acid methyl ester hydrochloride
213131-32-9P, Methyl trans-3-hydroxy-L-prolinate hydrochloride
496840-99-4P, (2S)-1-[[[4-Nitro-1-naphthalenyl)amino]carbonyl]-2-
pyrrolidinecarboxylic acid methyl ester 496841-04-4P,
(2S,3S)-3-Hydroxy-2-pyrrolidinecarboxylic acid methyl ester
496841-05-5P, 4-Cyano-1-naphthalene isocyanate 496841-07-7P,
(2S,3R)-N-tert-Butoxycarbonyl-3-benzoyloxy-2-pyrrolidinecarboxylic acid
methyl ester 496841-08-8P, (2S,3R)-3-Hydroxy-2-pyrrolidinecarboxylic
acid methyl ester 496841-09-9P, (2S,3R)-3-Hydroxy-2-
pyrrolidinecarboxylic acid methyl ester trifluoroacetic acid salt
496841-10-2P, (2S,3R)-1-[[[4-Cyanonaphthalen-1-yl)carbonyl]-3-
hydroxypyrrolidine-2-carboxylic acid methyl ester 496841-17-9P,
4-Isocyanato-1-naphthalenecarboxylic acid methyl ester 496841-26-0P,
3,4-Dehydro-L-proline methyl ester trifluoroacetic acid salt
496841-33-9P 496841-36-2P, 4-Cyano-N-thionyl-1-naphthylamine
496841-38-4P, (2S,3S)-3-(tert-Butyldimethylsilyloxy)-2-[[[4-
cyanonaphthalen-1-yl)carbonyl]pyrrolidine-1-carboxylic acid tert-butyl
ester 496841-39-5P, (2S,3S)-3-Hydroxypyrrolidine-2-carboxylic acid
(4-cyanonaphthalen-1-yl)amide 496841-43-1P, (2S,4R)-4-Benzyloxy-2-[[[4-
cyanonaphthalen-1-yl)carbonyl]pyrrolidine-1-carboxylic acid tert-butyl
ester 496841-44-2P, (2S,4R)-4-Benzyloxy-2-pyrrolidine-2-carboxylic acid
(4-cyanonaphthalen-1-yl)amide 496841-45-3P, (3R,6R,7AS)-4-(6-Benzyloxy-3-
tert-butyl-1-oxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-
carbonitrile 496841-55-5P, (7R,7AS)-4-(1,7-Dihydroxy-3-
oxotetrahydropyrrolo[1,2-c]imidazol-2-yl)naphthalene-1-carbonitrile
496841-57-7P, (7S,7AR)-4-(1,7-Dihydroxy-3-oxotetrahydropyrrolo[1,2-
c]imidazol-2-yl)naphthalene-1-carbonitrile
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of imidazole-containing heterobicyclic modulators of androgen
receptor function)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Gpi Nil Holdings Inc; WO 0146195 A1 2001 HCAPLUS

IT **496840-99-4P**, (2S)-1-[[[4-Nitro-1-naphthalenyl)amino]carbonyl]-2-
pyrrolidinecarboxylic acid methyl ester **496841-10-2P**,
(2S,3R)-1-[[[4-Cyanonaphthalen-1-yl)carbonyl]-3-hydroxypyrrolidine-2-
carboxylic acid methyl ester

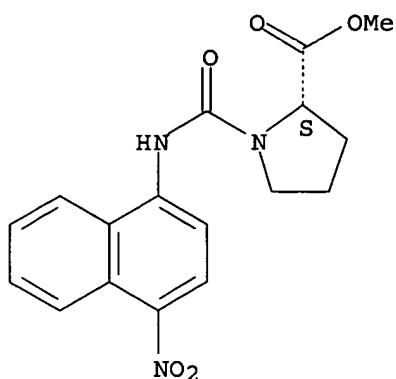
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of imidazole-containing heterobicyclic modulators of androgen
receptor function)

RN 496840-99-4 HCAPLUS

CN L-Proline, 1-[[[4-nitro-1-naphthalenyl)amino]carbonyl]-, methyl ester
(9CI) (CA INDEX NAME)

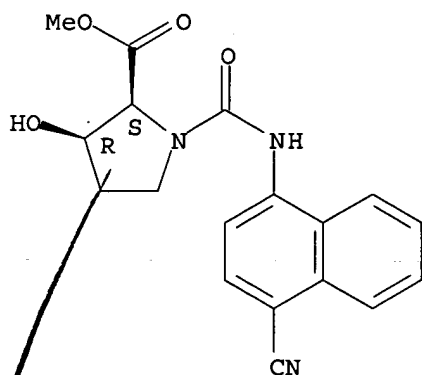
Absolute stereochemistry.



RN 496841-10-2 HCAPLUS

CN L-Proline, 1-[[[4-cyano-1-naphthalenyl]amino]carbonyl]-3-hydroxy-, methyl ester, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L35 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:90005 HCAPLUS

DN 136:151068

ED Entered STN: 01 Feb 2002

TI Preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors

IN Aebi, Johannes; Bur, Daniel; Chucholowski, Alexander; Dehmlow, Henrietta;

Kitas, Eric Argirios; Obst, Ulrike; Wessel, Hans Peter

PA F. Hoffmann-La Roche A.-G., Switz.

SO PCT Int. Appl., 160 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D207-48

ICS C07D207-36; C07D405-12; C07D409-12; C07D413-12; C07D417-12;

C07D401-12; C07D403-06; A61K031-40; A61P009-00

CC 27-10 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 1

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002008185	A1	20020131	WO 2001-EP7951	20010710
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				

RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
 VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

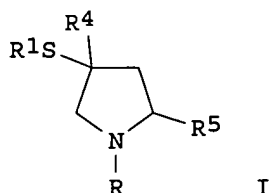
CA 2415740	AA	20020131	CA 2001-2415740	20010710
EP 1303486	A1	20030423	EP 2001-956523	20010710
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001012655	A	20030624	BR 2001-12655	20010710
JP 2004504379	T2	20040212	JP 2002-514092	20010710
US 2002040146	A1	20020404	US 2001-906980	20010717
ZA 2003000170	A	20040407	ZA 2003-170	20030107
US 2003199569	A1	20031023	US 2003-373622	20030225
US 6790860	B2	20040914		
US 2004242672	A1	20041202	US 2004-881427	20040630
PRAI EP 2000-114949	A	20000719		
WO 2001-EP7951	W	20010710		
US 2001- 906980	B3	20010717		
US 2003-373622	A3	20030225		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002008185	ICM ICS	C07D207-48 C07D207-36; C07D405-12; C07D409-12; C07D413-12; C07D417-12; C07D401-12; C07D403-06; A61K031-40; A61P009-00
JP 2004504379	FTERM	4C063/AA01; 4C063/BB08; 4C063/CC82; 4C063/DD03; 4C063/EE01; 4C069/AA12; 4C069/AA23; 4C069/BC14; 4C069/BC18; 4C069/BD03; 4C069/BD06; 4C086/AA01; 4C086/AA02; 4C086/AA03; 4C086/BC07; 4C086/GA02; 4C086/GA07; 4C086/MA01; 4C086/MA04; 4C086/NA14; 4C086/ZA06; 4C086/ZA33; 4C086/ZA36; 4C086/ZA40; 4C086/ZA42; 4C086/ZA45; 4C086/ZA59; 4C086/ZA66; 4C086/ZA68; 4C086/ZA81; 4C086/ZA89; 4C086/ZB08; 4C086/ZB21; 4C086/ZB26; 4C086/ZB35; 4C086/ZC20; 4C086/ZC35
US 2002040146	ECLA	C07D207/36; C07D409/12+333B+207; C07D413/12+216+207; C07D417/12+277B+207; C07D207/48; C07D401/2+213+207; C07D401/12+215+207; C07D401/12+217+207; C07D403/06+209C+207; C07D405/12+317+207;
US 2003199569	ECLA	C07D207/36; C07D207/48; C07D401/12+213+207; C07D401/12+215+207; C07D401/12+217+207; C07D403/06209C+207; C07D405/12+317+207; C07D405/12+319+207; C07D409/12+333B+207; C07D413/12+216+207;

OS MARPAT 136:151068

GI



AB Title compds. [e.g., I; R = Z1R3 or SO3H; R1 = H, alkanoyl, aroyl; R3 = alkyl, (hetero)aryl, heterocyclyl, etc.; R4 = H or alkyl; R5 = CH2Z2R2; R2 = aryl(alkyl), ar(o)ylamino, arylsulfonyl, etc.; Z1 = sulfonyl(amino),

CONH, CO₂, etc.; Z₂ = CH₂, O, S, (un)substituted NH] were prepared Thus, e.g., (3R,5S)-1-naphthalene-2-sulfonyl-5-anilinomethylpyrrolidine-3-thiol

ST pyrrolidinethiol prepn metalloprotease inhibitor; vasoconstriction inhibitor pyrrolidinethiol prepn; zinc hydrolase inhibitor pyrrolidinethiol prepn

IT Vasoconstriction

(inhibitors; preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors)

IT 81669-70-7, Metalloprotease 138238-81-0, Endothelin converting enzyme

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(mediated disorders; treatment; preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors)

IT	393787-19-4P	393787-20-7P	393787-21-8P	393787-22-9P	393787-23-0P
	393787-24-1P	393787-25-2P	393787-26-3P	393787-27-4P	393787-28-5P
	393787-29-6P	393787-30-9P	393787-31-0P	393787-32-1P	393787-33-2P
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	393787-42-3P	393787-43-4P	393787-44-5P	393787-45-6P	393787-46-7P
	393787-47-8P	393787-48-9P	393787-49-0P	393787-50-3P	393787-51-4P
	393787-52-5P	393787-53-6P	393787-54-7P	393787-55-8P	393787-56-9P
	393787-57-0P	393787-58-1P	393787-59-2P	393787-60-5P	393787-61-6P
	393787-62-7P	393787-63-8P	393787-64-9P	393787-65-0P	393787-66-1P
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	393788-76-6P	393788-77-7P	393788-78-8P	393788-79-9P	393788-80-2P
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	393789-47-4P	393789-48-5P	393789-49-6P	393789-50-9P	393789-51-0P
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	393789-65-6P	393789-66-7P	393789-67-8P	393789-68-9P	393789-69-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors)

IT 393789-70-3P 393789-71-4P 393789-72-5P 393789-73-6P 393789-74-7P
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 393789-82-7P 393789-84-9P 393789-86-1P 393789-88-3P 393789-89-4P
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 393791-57-6P 393791-58-7P 393791-60-1P 393791-62-3P 393791-63-4P
 393791-64-5P 393791-92-9P 393792-71-7P 393792-72-8P 393793-31-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors)

IT 51-35-4, L-Hydroxyproline 64-04-0, Phenethylamine 78-84-2 85-41-6,
 Phthalimide 85-46-1, 1-Naphthalenesulfonyl chloride 89-99-6,
 2-Fluorobenzylamine 93-11-8, 2-Naphthalenesulfonyl chloride 98-03-3,
 2-Thiophenecarboxaldehyde 98-59-9, p-Toluenesulfonyl chloride 98-88-4,
 Benzoyl chloride 98-89-5, Cyclohexanecarboxylic acid 100-39-0,
 Benzylbromide 100-46-9, Benzylamine, reactions 100-53-8,
 Benzenemethanethiol 103-49-1, Dibenzylamine 103-67-3,
 N-Benzylmethylaniline 103-79-7, Phenylacetone 107-91-5, Cyanoacetamide
 108-23-6, Isopropyl chloroformate 109-89-7, Diethylamine, reactions
 110-89-4, Piperidine, reactions 111-36-4, Butyl isocyanate 123-54-6,
 Acetylacetone, reactions 140-29-4, Benzylcyanide 141-97-9, Ethyl
 acetoacetate 351-54-2, 3-Fluoro-p-anisaldehyde 367-12-4,
 2-Fluorophenol 500-22-1, 3-Pyridinecarboxaldehyde 501-53-1, Benzyl
 chloroformate 529-20-4, o-Tolualdehyde 592-34-7, Butyl chloroformate
 613-45-6, 2,4-Dimethoxybenzaldehyde 773-99-9, 1-Naphthaleneethanol
 872-85-5, 4-Pyridinecarboxaldehyde 1126-09-6, Ethyl isonipicotate
 1129-28-8, 3-Bromomethylbenzoic acid methyl ester 1485-07-0,
 2-Naphthaleneethanol 1679-64-7, Monomethyl terephthalate 1885-14-9,
 Phenyl chloroformate 2043-61-0, Cyclohexanecarboxaldehyde 2550-36-9,
 (Bromomethyl)cyclohexane 2646-90-4, 2,5-Difluorobenzaldehyde
 3042-81-7, Methyl α -bromophenylacetate 3695-77-0,

Triphenylmethanethiol 3978-80-1, Boc-L-tyrosine 4392-24-9,
 3-Bromo-1-phenyl-1-propene 4644-61-5, 3-Ethoxycarbonyl-4-piperidone
 hydrochloride 5292-43-3, tert-Butyl bromoacetate 6258-60-2
 7693-41-6, p-Methoxyphenyl chloroformate 7693-50-7, Chloroformic acid
 2-naphthyl ester 7781-98-8, Ethyl 3-hydroxybenzoate 13139-15-6,
 Boc-L-leucine 22002-68-2, N-Ethyl-2-phenylethylamine 27821-10-9
 38377-38-7, 4-Fluorophenyl chloroformate 40216-83-9 60656-87-3,
 Benzyloxyacetaldehyde 61837-46-5, Methyl 2-bromo-4-methylvalerate
 62147-27-7 64567-25-5, N-Ethyl-2-fluorobenzylamine 72235-51-9,
 2,3-Difluorobenzylamine 72235-52-0, 2,4-Difluorobenzylamine 74844-91-0
 79487-90-4 81927-55-1, Benzyl 2,2,2-trichloroacetimidate 85118-06-5,
 2,5-Difluorobenzylamine 98935-66-1 115948-87-3, 4-(2,4-Dioxo-1,4-
 dihydro-2H-quinazolin-3-yl)butyric acid 157911-56-3,
 2,4,5-Trifluorobenzylbromide 175694-38-9 230295-09-7,
 2,3,6-Trifluorobenzylamine 244022-72-8, 2,3,5-Trifluorobenzylamine
 393153-87-2 393793-82-3 393793-83-4, 1,4-Benzodioxan-5-yl
 chloroformate 394208-21-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors)

IT	47452-55-1P	84348-38-9P	169032-99-9P	176306-17-5P	181295-78-3P
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	391671-95-7P	391672-17-6P	391672-19-8P	391672-21-2P	391672-25-6P
	391888-88-3P	391888-89-4P	393153-98-5P	393153-99-6P	393154-01-3P
	393154-02-4P	393154-03-5P	393791-65-6P	393791-66-7P	393791-67-8P
	393791-68-9P	393791-69-0P	393791-70-3P	393791-71-4P	393791-72-5P
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	393791-79-2P	393791-80-5P	393791-81-6P	393791-82-7P	393791-83-8P
	393791-84-9P	393791-85-0P	393791-86-1P	393791-87-2P	393791-88-3P
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Abbott Lab; WO 9730046 A 1997 HCAPLUS
- (2) Banyu Pharma Co Ltd; EP 0747381 A 1996 HCAPLUS
- (3) Fujisawa Pharmaceutical Co; EP 0333175 A 1989 HCAPLUS
- (4) Fujisowa Pharmaceutical Co Ltd; JP 06263761 A 1994 HCAPLUS
- (5) Procter & Gamble; WO 9808814 A 1998 HCAPLUS
- (6) Procter & Gamble; WO 9808815 A 1998 HCAPLUS
- (7) Shionogi & Co; EP 0528678 A 1993 HCAPLUS
- (8) Sumitomo Pharma; EP 0182213 A 1986 HCAPLUS
- (9) Yoo, J; HCAPLUS
- (10) Yoo, J; YAKHAK HOECHI 1999, V43(3), P306 HCAPLUS

IT 393790-60-8P 393790-61-9P 393790-63-1P

393790-64-2P

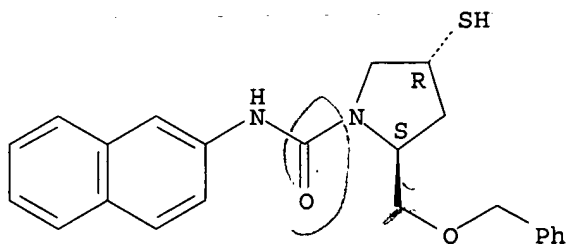
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors)

RN 393790-60-8 HCAPLUS

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-2-naphthalenyl-2-
 [(phenylmethoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

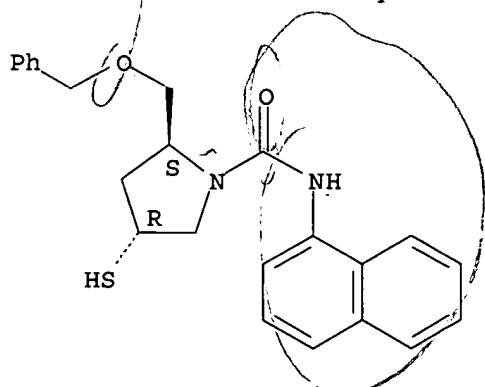
Absolute stereochemistry.



RN 393790-61-9 HCAPLUS

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-1-naphthalenyl-2-
 [(phenylmethoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

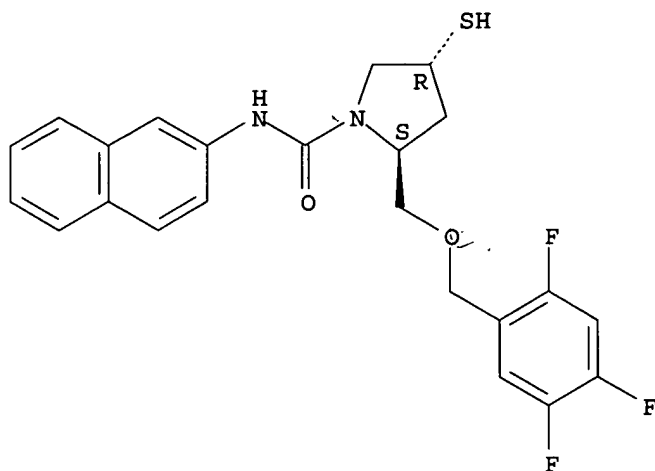


RN 393790-63-1 HCAPLUS

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-2-naphthalenyl-2-[(2,4,5-

trifluorophenyl)methoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

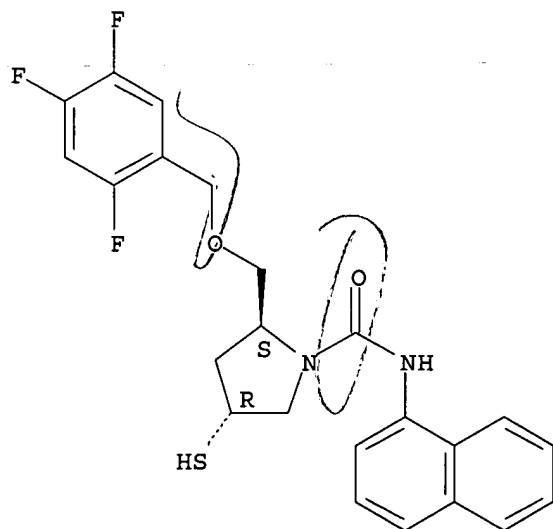
Absolute stereochemistry.



RN 393790-64-2 HCAPLUS

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-1-naphthalenyl-2-[[[(2,4,5-trifluorophenyl)methoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> fil uspatful

FILE 'USPATFULL' ENTERED AT 14:51:56 ON 22 DEC 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 21 Dec 2004 (20041221/PD)

FILE LAST UPDATED: 21 Dec 2004 (20041221/ED)

HIGHEST GRANTED PATENT NUMBER: US6834393

HIGHEST APPLICATION PUBLICATION NUMBER: US2004255355

CA INDEXING IS CURRENT THROUGH 21 Dec 2004 (20041221/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 21 Dec 2004 (20041221/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2004

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2004

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>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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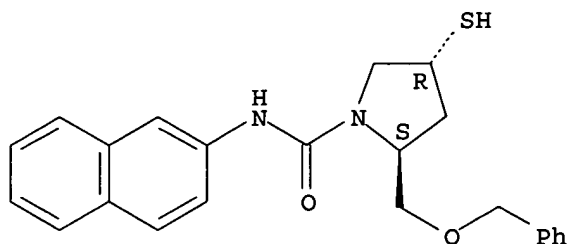
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L38 ANSWER 1 OF 5 USPATFULL on STN
AN 2004:307996 USPATFULL
TI Pyrrolidine derivatives
IN Aebi, Johannes, Basle, SWITZERLAND
Bur, Daniel, Therwil, SWITZERLAND
Chucholowski, Alexander, San Diego, CA, UNITED STATES
Dehmlow, Henrietta, Grenzach-Wyhlen, GERMANY, FEDERAL REPUBLIC OF
Kitas, Eric Argirios, Arlesheim, SWITZERLAND
Obst, Ulrike, Grenzach-Wyhlen, GERMANY, FEDERAL REPUBLIC OF
Wessel, Hans Peter, Heitersheim, GERMANY, FEDERAL REPUBLIC OF
PI US 2004242672 A1 20041202
AI US 2004-881427 A1 20040630 (10)
RLI Division of Ser. No. US 2003-373622, filed on 25 Feb 2003, GRANTED, Pat.
No. US 6790860 Division of Ser. No. US 2001-906980, filed on 17 Jul
2001, ABANDONED
PRAI EP 2000-114949 20000719
DT Utility
FS APPLICATION
LREP HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET,
NUTLEY, NJ, 07110
CLMN Number of Claims: 59
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 5156
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to pyrrolidine derivatives useful as
inhibitors of metalloproteases, e.g. zinc proteases, and which are
effective in treating disease states associated with vasoconstriction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 393790-60-8P 393790-61-9P 393790-63-1P
393790-64-2P
(preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors)
RN 393790-60-8 USPATFULL
CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-2-naphthalenyl-2-
[(phenylmethoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

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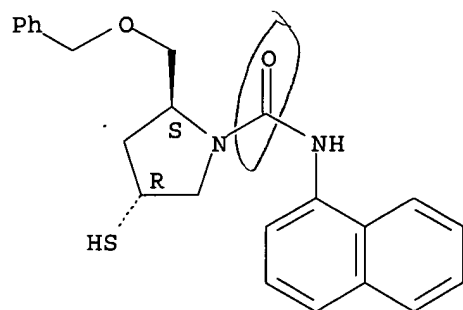
Absolute stereochemistry.



RN 393790-61-9 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-1-naphthalenyl-2-
[(phenylmethoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

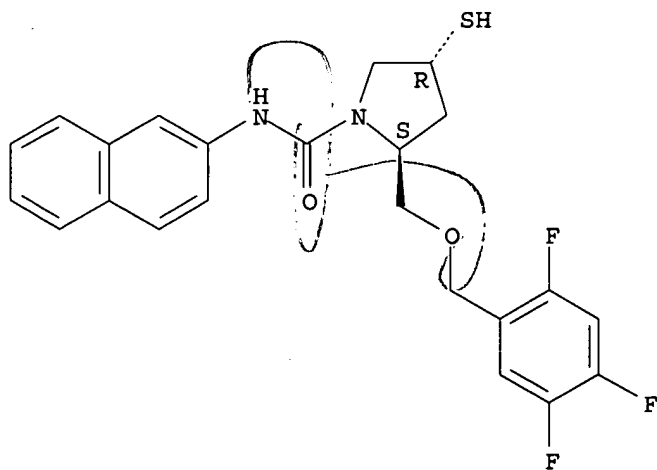
Absolute stereochemistry.



RN 393790-63-1 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-2-naphthalenyl-2-[[[(2,4,5-trifluorophenyl)methoxy]methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

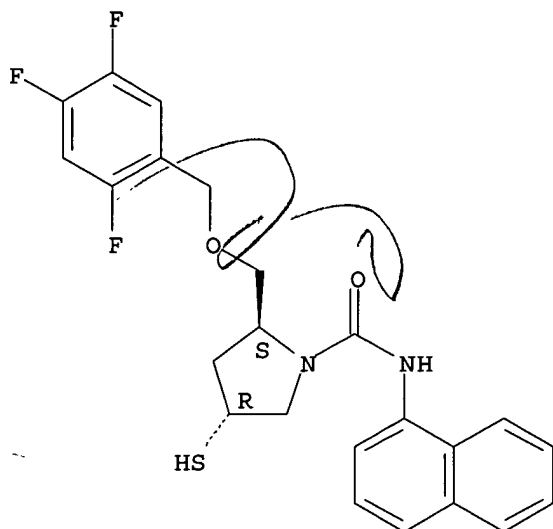
Absolute stereochemistry.



RN 393790-64-2 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-1-naphthalenyl-2-[[[(2,4,5-trifluorophenyl)methoxy]methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L38 ANSWER 2 OF 5 USPATFULL on STN
 AN 2004:121143 USPATFULL
 TI Bicyclic modulators of androgen receptor function
 IN Hamann, Lawrence, Cherry Hill, NJ, UNITED STATES
 Augeri, David, Princeton, NJ, UNITED STATES
 PI US 2004092559 A1 20040513
 AI US 2003-685020 A1 20031014 (10)
 RLI Division of Ser. No. US 2002-209461, filed on 31 Jul 2002, GRANTED, Pat.
 No. US 6670386

PRAI US 2001-309059P 20010731 (60)
 DT Utility
 FS APPLICATION
 LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O
 BOX 4000, PRINCETON, NJ, 08543-4000
 CLMN Number of Claims: 5
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 2721

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compounds of the formula I ##STR1##

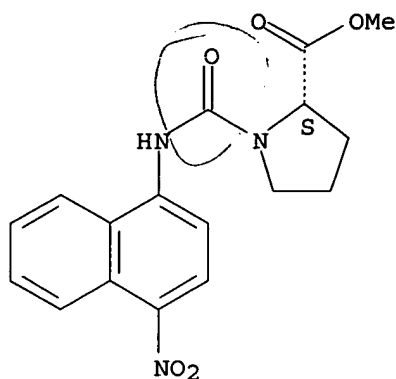
wherein the substituents are as described herein.

Further provided are methods of using such compounds for the treatment of nuclear hormone receptor-associated conditions, such as age related diseases, for example sarcopenia, and also provided are pharmaceutical compositions containing such compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 496840-99-4P, (2S)-1-[[[4-Nitro-1-naphthalenyl)amino]carbonyl]-2-pyrrolidinecarboxylic acid methyl ester 496841-10-2P,
 (2S,3R)-1-[[[4-Cyanonaphthalen-1-yl)carbonyl]-3-hydroxypyrrolidine-2-carboxylic acid methyl ester
 (preparation of imidazole-containing heterobicyclic modulators of androgen receptor function)
 RN 496840-99-4 USPATFULL
 CN L-Proline, 1-[[[4-nitro-1-naphthalenyl)amino]carbonyl]-, methyl ester
 (9CI) (CA INDEX NAME)

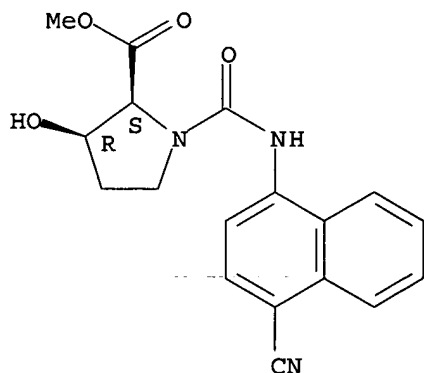
Absolute stereochemistry.



RN 496841-10-2 USPATFULL

CN L-Proline, 1-[[[4-cyano-1-naphthalenyl]amino]carbonyl]-3-hydroxy-, methyl ester, (3R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L38 ANSWER 3 OF 5 USPATFULL on STN

AN 2003:283225 USPATFULL

TI Pyrrolidine derivatives

IN Aebi, Johannes, Basel, SWITZERLAND

Bur, Daniel, Therwil, SWITZERLAND

Chucholowski, Alexander, San Diego, CA, UNITED STATES

Dehmlow, Henrietta, Grenzach-Wyhlen, GERMANY, FEDERAL REPUBLIC OF

Kitas, Eric Argirios, Arlesheim, SWITZERLAND

Obst, Ulrike, Grenzach-Wyhlen, GERMANY, FEDERAL REPUBLIC OF

Wessel, Hans Peter, Heitersheim, GERMANY, FEDERAL REPUBLIC OF

PI US 2003199569 A1 20031023

US 6790860 B2 20040914

AI US 2003-373622 A1 20030225 (10)

RLI Division of Ser. No. US 2001-906980, filed on 17 Jul 2001, ABANDONED

PRAI EP 2000-114949 20000719

DT Utility

FS APPLICATION

LREP HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET, NUTLEY, NJ, 07110

CLMN Number of Claims: 61

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 5164

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to pyrrolidine derivatives useful as

inhibitors of metalloproteases, e.g. zinc proteases, and which are effective in treating disease states associated with vasoconstriction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 393790-60-8P 393790-61-9P 393790-63-1P

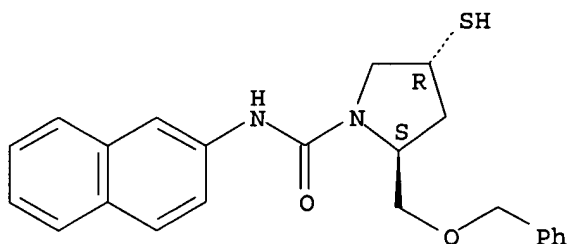
393790-64-2P

(preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors)

RN 393790-60-8 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-2-naphthalenyl-2-
[(phenylmethoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

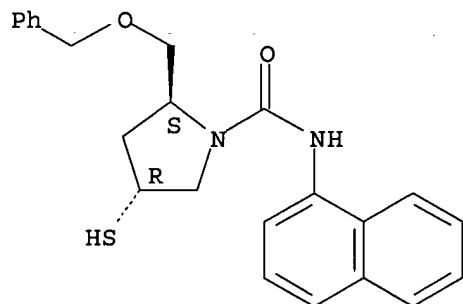
Absolute stereochemistry.



RN 393790-61-9 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-1-naphthalenyl-2-
[(phenylmethoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

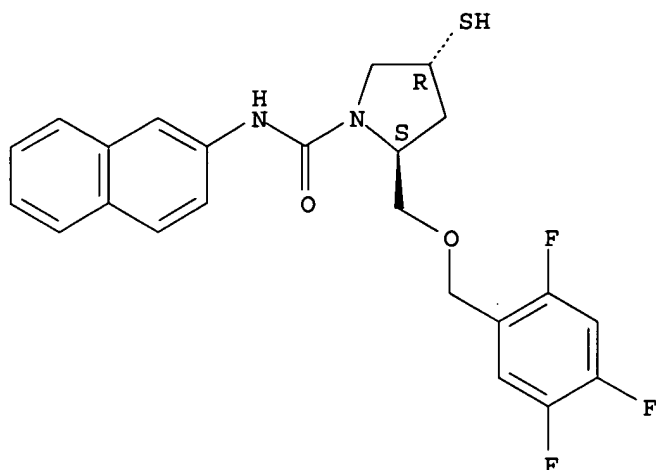
Absolute stereochemistry.



RN 393790-63-1 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-2-naphthalenyl-2-[[[(2,4,5-trifluorophenyl)methoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

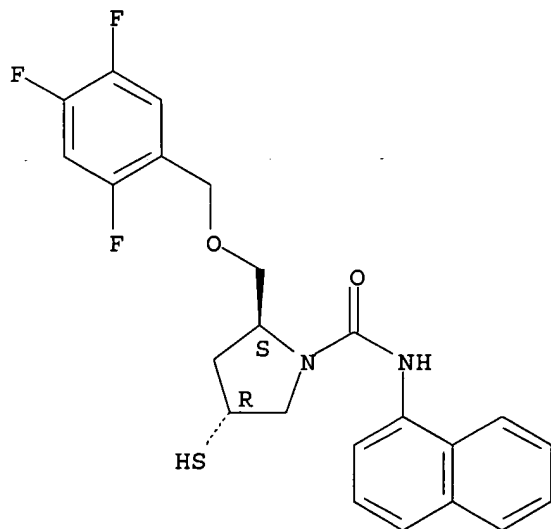
Absolute stereochemistry.



RN 393790-64-2 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-1-naphthalenyl-2-[[[(2,4,5-trifluorophenyl)methoxy]methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L38 ANSWER 4 OF 5 USPATFULL on STN

AN 2003:79166 USPATFULL

TI Bicyclic modulators of androgen receptor function

IN Sun, Chongqing, East Windsor, NJ, UNITED STATES

Robl, Jeffrey A., Newtown, PA, UNITED STATES

Salvati, Mark E., Lawrenceville, NJ, UNITED STATES

Wang, Tammy, Lawrenceville, NJ, UNITED STATES

Hamann, Lawrence, Cherry Hill, NJ, UNITED STATES

Augeri, David, Princeton, NJ, UNITED STATES

PI US 2003055094 A1 20030320

US 6670386 B2 20031230

AI US 2002-209461 A1 20020731 (10)

PRAI US 2001-309059P 20010731 (60)

DT Utility

FS APPLICATION

LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O
BOX 4000, PRINCETON, NJ, 08543-4000

CLMN Number of Claims: 16

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 2909

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compounds of the formula I ##STR1##

wherein the substituents are as described herein.

Further provided are methods of using such compounds for the treatment of nuclear hormone receptor-associated conditions, such as age related diseases, for example sarcopenia, and also provided are pharmaceutical compositions containing such compounds.

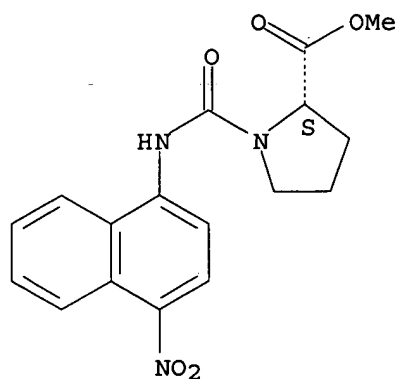
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **496840-99-4P**, (2S)-1-[[[4-Nitro-1-naphthalenyl)amino]carbonyl]-2-pyrrolidinecarboxylic acid methyl ester **496841-10-2P**,
(2S,3R)-1-[[[4-Cyanonaphthalen-1-yl)carbamoyl]-3-hydroxypyrrolidine-2-carboxylic acid methyl ester
(preparation of imidazole-containing heterobicyclic modulators of androgen receptor function)

RN 496840-99-4 USPATFULL

CN L-Proline, 1-[[[4-nitro-1-naphthalenyl)amino]carbonyl]-, methyl ester
(9CI) (CA INDEX NAME)

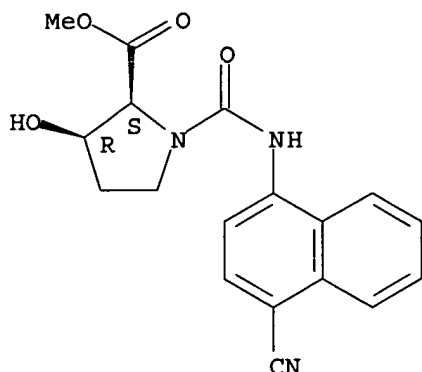
Absolute stereochemistry.



RN 496841-10-2 USPATFULL

CN L-Proline, 1-[[[4-cyano-1-naphthalenyl)amino]carbonyl]-3-hydroxy-, methyl ester, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L38 ANSWER 5 OF 5 USPATFULL on STN

AN 2002:73005 USPATFULL

TI Pyrrolidine derivatives

IN Aebi, Johannes, Basel, SWITZERLAND

Bur, Daniel, Therwil, SWITZERLAND

Chucholowski, Alexander, San Diego, CA, UNITED STATES

Dehmlow, Henrietta, Grenzach-Wyhlen, GERMANY, FEDERAL REPUBLIC OF

Kitas, Eric Argirios, Arlesheim, SWITZERLAND

Obst, Ulrike, Grenzach-Wyhlen, GERMANY, FEDERAL REPUBLIC OF

Wessel, Hans Peter, Heitersheim, GERMANY, FEDERAL REPUBLIC OF

PI US 2002040146 A1 20020404

AI US 2001-906980 A1 20010717 (9)

PRAI EP 2000-114949 20000719

DT Utility

FS APPLICATION

LREP HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET,
NUTLEY, NJ, 07110

CLMN Number of Claims: 29

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 5113

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to pyrrolidine derivatives useful as inhibitors of metalloproteases, e.g. zinc proteases, and which are effective in treating disease states associated with vasoconstriction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 393790-60-8P 393790-61-9P 393790-63-1P

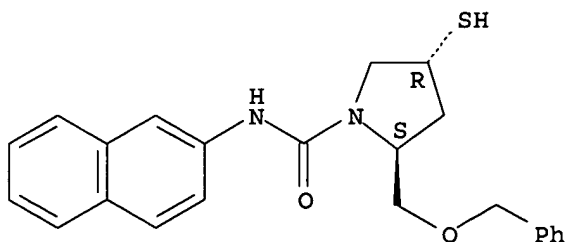
393790-64-2P

(preparation of pyrrolidinethiols and analogs as metalloprotease inhibitors)

RN 393790-60-8 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-2-naphthalenyl-2-
[(phenylmethoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

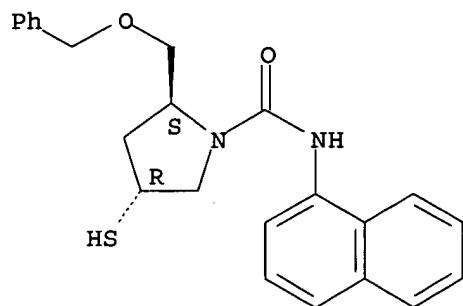
Absolute stereochemistry.



RN 393790-61-9 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-1-naphthalenyl-2-
[(phenylmethoxy)methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

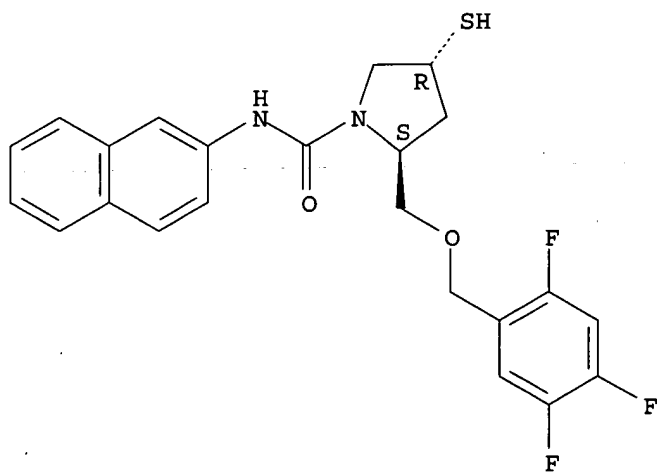
Absolute stereochemistry.



RN 393790-63-1 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-2-naphthalenyl-2-[[2,4,5-
trifluorophenyl)methoxy]methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

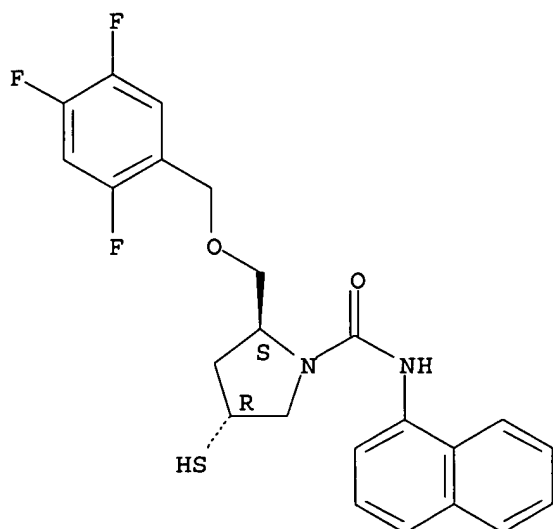
Absolute stereochemistry.



RN 393790-64-2 USPATFULL

CN 1-Pyrrolidinecarboxamide, 4-mercapto-N-1-naphthalenyl-2-[[2,4,5-
trifluorophenyl)methoxy]methyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L12	16 S L10 NOT L11
L13	4 S L12 AND NCNC2-NC5/ES
L14	12 S L12 NOT L13
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